EARTHFILL – DENSITY IN PLACE WORK SHEET

BY BALLOON VOLUMEASURE METHOD

Project _____ Contractor _____ County _____

Location _____ Station _____ Elevation _____

Other Details _____ Test No. _____

Technician _____ Date _____ Hour _____

Checked By _____

WEIGHT OF SOIL: (That removed from hole)

Gross Weight _____ lbs.

Less Container _____

Weight of Soil (Wet) _____ lbs. (1)

VOLUME OF SOIL: (That of the hole)

Final reading of graduated glass (in volumeasure) _____ Cu.Ft.

Initial reading of glass _____

In place volume of sample (subtract) _____ Cu.Ft. (2)

WET DENSITY: $\frac{(1)}{(2)} = \frac{(\quad)}{(\quad)} =$ _____ lbs./Cu.Ft. (3)

MOISTURE CONTENT: (By gas pressure device) (Speedy) Wet _____ % Dry _____ % (4)

DRY DENSITY: $\frac{(3)}{(4) + 100} \times 100 = \frac{(\quad)}{(\quad) + 100} \times 100 =$ _____ lbs./Cu.Ft. (5)

MOISTURE CONTENT BY OVEN METHOD (As a check if desirable) – should be same as (4)

Weight of pan + soil (wet) _____ gr.

Weight of pan + soil (dry) _____ gr.

Weight of water (subtract) _____ gr. (6)

Weight of pan alone _____ gr.

Weight of dry soil (subtract) _____ gr. (7)

MOISTURE CONTENT: $\frac{(6)}{(7)} \times 100 = \frac{(\quad)}{(\quad)} \times 100 =$ _____ % (8)

Comments: _____

*If a determination of moisture % is made by oven then that value (8) may be used for DRY DENSITY determination rather than (4) as found by the quick "Speedy" method.